

GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF RESEARCH ADMINISTRATION
RESEARCH PROJECT INITIATION

no action
ad
OHL

Date: August 25, 1975

Project Title: Instructional Scientific Equipment

Project No.: N-12-501

Principal Investigator: J. R. Lee

Sponsor: National Science Foundation

Agreement Period: From 6/1/75 Until 5/31/77

Type Agreement: Grant No. HES75-12637

Amount: \$13,900 NSF
13,900 GIT
\$27,800 TOTAL

Reports Required: Final Report
Fiscal Report

Sponsor Contact Person (s):

Instructional Scientific Equipment Program
National Science Foundation
Washington, D. C. 20550

Assigned to: Southern Tech

COPIES TO:

Principal Investigator	Library
School Director	Rich Electronic Computer Center
Dean of the College	Photographic Laboratory
Director, Research Administration	Project File
Director, Financial Affairs (2)	
Security Reports-Property Office ✓	
Patent Coordinator	Other _____

GEORGIA INSTITUTE OF TECHNOLOGY
OFFICE OF CONTRACT ADMINISTRATION
SPONSORED PROJECT TERMINATION

Date: OCTOBER 14, 1977

*No action
2072
OHL*

Project Title: INSTRUCTIONAL SCIENTIFIC EQUIPMENT

Project No: N-12-501

Project Director: J. R. LEE

Sponsor: NATIONAL SCIENCE FOUNDATION

Effective Termination Date: 5/31/77

Clearance of Accounting Charges: ALL CLEAR

Grant/Contract Closeout Actions Remaining:

- ☐ Final Invoice and Closing Documents
- ☒ Final Fiscal Report DUE 8/31/77.
- ☐ Final Report of Inventions
- ☐ Govt. Property Inventory & Related Certificate
- ☐ Classified Material Certificate
- ☒ Other SUMMARY OF COMPLETED PROJECT DUE 8/31/77.

Assigned to: SOUTHERN TECHNICAL INSTITUTE (School/Laboratory)

COPIES TO:

Project Director
Division Chief (EES)
School/Laboratory Director
Dean/Director-EES
Accounting Office
Procurement Office
☒ Security Coordinator (OCA)
Reports Coordinator (OCA)

Library, Technical Reports Section
Office of Computing Services
Director, Physical Plant
EES Information Office
Project File (OCA)
Project Code (GTRI)
Other _____

GEORGIA INSTITUTE OF TECHNOLOGY
ATLANTA, GEORGIA 30332

OFFICE OF
THE DIRECTOR OF
FINANCIAL AFFAIRS

October 19, 1977

Division of Grants and Contracts
National Science Foundation
Washington, D. C. 20550

Gentlemen:

Enclosed in triplicate is the final fiscal report for Grant
Number HES75-12637.

If you have any questions or desire additional information,
please let us know.

Sincerely yours,

David V. Welch

for Evan Crosby
Associate Director of
Financial Affairs

EC/bs

Enclosures as stated

cc: Prof. J. R. Lee
Dr. W. O. Carlson
Mr. E. E. Renfro
Mr. A. H. Becker ✓
File N-12-501, N-12-211

GRANT FISCAL REPORT

INSTRUCTIONAL SCIENTIFIC EQUIPMENT PROGRAM

READ INSTRUCTIONS BELOW BEFORE COMPLETING THIS FORM

NAME AND ADDRESS OF GRANTEE Georgia Institute of Technology Atlanta, Georgia 30332	GRANT NO. HES75-12637	STATE & INST. CODE (leave blank)
	PROPOSAL NO.	GRANT AMOUNT \$ 13,900.00
	DATES OF EXPENDITURES FROM 6/1/75 TO 10/7/77*	

ITEM	GRANTEE MATCHING FUND	NSF FUND
Amount Awarded and Matching Funds	\$ 13,900.00	\$ 13,900.00
Expenditures for Purchases	13,900.00	13,761.96
Balance	\$ 0.00	\$ 138.04

REMARKS (may be continued on reverse)

*No obligations were incurred outside the grant period of 6/1/75 through 5/31/77.

INSTRUCTIONS (See program announcement for details):

This grant does NOT provide an indirect cost allowance. Costs may NOT be charged to the grant fund beyond the termination date of the grant stated in the letter of award.

A final fiscal report should be forwarded, in triplicate, when the project is completed, but not later than two months after the termination date of the grant. These reports should be addressed to the Grants Office, NATIONAL SCIENCE FOUNDATION, Washington, D. C. 20550.

The submission of a Grant Balance Adjustment Notice (NSF Form 4-53) with the final fiscal report is no longer necessary. For those institutions with other active grants, the unexpended balance indicated on the final fiscal report will be debited by NSF against their open account. Those institutions not holding other active grants, with open accounts, should remit any unexpended funds by check made payable to National Science Foundation together with the final fiscal report.

We certify that the expenditures are properly chargeable to the grant.

SIGNATURE (Administrative Official) David V. Welch for	TYPED NAME AND TITLE Evan Crosby, Associate Director of Financial Affairs	DATE 10/19/77
SIGNATURE (Project Director) J. R. Lee	TYPED NAME AND TITLE J. R. Lee, Assistant Professor	DATE 10-17-77

N-12-501

SOUTHERN TECHNICAL INSTITUTE
MARIETTA, GEORGIA 30060

July 29, 1977

Instructional Scientific Equipment Program
Division of Higher Education in Science
National Science Foundation
Washington, D. C. 20550

Re: HES 75-12637
Instructional Scientific Equipment
Project Director's Final Report

Dear Sir:

The grant of equipment, along with that provided by the Chemistry and Physics Department of Southern Technical Institute, and a small grant from the Georgia Engineering Foundation, Inc., has established laboratory experiments directly related to the two-year associate degree in Nuclear Safety. Without this equipment the students in the Nuclear Safety Option would not graduate with the knowledge of how to operate professional equipment that is used in and around nuclear reactors and related areas.

The basic counting equipment is used in the first course of the Nuclear Safety Option, and now by all Physics and Chemistry students at least once each year. The other "one and two quantity" items are used by the Nuclear Safety Option students in the last of a three course sequence in "Applied Health Physics" laboratory work. In this laboratory work the students are allowed to develop their own innovative experiments using the equipment. Two such innovative experiments have resulted in new discoveries of how to differentiate CaF TLD Chips from LiF TLD Chips and the "fade" of radiation dose of TLD Chips with high ambient temperatures. During the last year several students have used the equipment to perform "special topic" experiments for which they have received academic credit.

A few minor problems have been encountered with the equipment, but not to the extent that they are not easily solved. The lab where the equipment is used and stored is not air conditioned, therefore, the electronic stability of some equipment is questionable. We hope to have this solved within the next month. The other small problems are obtaining a radiation material's specific license from the State of Georgia, and obtaining a first floor lab so that lead shielding can be used to reduce background radiation. In carrying out the intent of the project, it was discovered that we were ordering redundant equipment and that prices have increased a great deal since the original proposal was written. These problems were overcome by a March 3, 1977 request to NSF to order substitute equipment as indicated in the attached table.

We feel that the overall impact has been good on the entire student body of Southern Tech and excellent with respect toward developing the interest of the students in nuclear safety. The project has progressed over the last two years smoothly with outstanding cooperation from the National Science Foundation.

On behalf of our students and the future students at Southern Technical Institute, "the support of NSF is greatly appreciated".

Very truly yours,

A handwritten signature in dark ink, appearing to read "J. R. Lee", is written over the typed name.

J. R. Lee
Project Director

JRL:ef

Att:

cc: Dr. W. O. Carlson, Dean

Table of Equipment Substitutions and Additions

<u>Original Proposal Ref. No.</u>	<u>Descriptions</u>	<u>Explanation</u>
3.	Portable Survey Meters with Probe & Speaker	These items increased in price, as a result one was ordered without the speaker.
5.	Thermoluminescent Dosimeter Reader	When shipped the equipment had a "gasflow" feature not ordered, rather than return, we retained, because of the sensitivity of instrument.
7.	Pulse Height Analyzer System	This is the equipment that was substituted for seven Beta Counters per the request letter to NSF of March 3, 1977, and approved by Dr. Quarles.
None	One 2" x 2" NaI Crystal with 14 pin Photomultiplier tube.	This equipment was ordered to work with the PHA System and several other sustems because the funds were available as surplus.